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# LIBRARY NEWSLETTER

## U. S. DEPARTMENT OF AGRICULTURE

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### DOUGLAS FIR USE BOOK

Comment by Leonard B. Marr, Agricultural Engineer  
Soil Conservation Service, Holbrook, Arizona

A useful book for engineers in the design of wooden structures is the "Douglas Fir Use Book" published by the West Coast Lumbermen's Association, 364 Stuart Building, Seattle, Washington, for \$1.00.

The Douglas Fir Use Book contains 209 pages of useful information on basic laws for structural grades, determination of working stresses, data on particular properties and factors, timber connectors such as split-ring etc., and its use in modern timber joints, analysis of useful span - height ratios for joists and beams, formulas for bending, shear and deflection, and conversion factors to and from uniformly distributed loads. The greater portion of the book contains tables on uniformly distributed loads for joists and beams from 3' to 50' long, of various sizes within these lengths. For each size is indicated total load "W" on member in lbs., maximum horizontal shearing stress "S" for total load applied in lbs. per sq. inch, maximum deflection "d" in inches for total load "W" and total load "Wd" in lbs. at deflection of  $1/360$  of span. It also contains tables on maximum spans for joists and rafters for floor loads from 40 to 150 lbs. per sq. foot, and other tables on rafters and roof joists, properties of posts and struts, and properties of studding. One other very useful table is "Inch-width Span Loads - Edges Surfaced" for unit stresses of 1,000 to 1,800 lbs. in spans from 3' to 50' of depth from 3" to 40" of "W, S, d, and Wd" as indicated above.

Although the book is primarily for Douglas Fir use, properties of other woods can be easily determined by conversion or ratio factors.

Supplement No. 1 to the above book contains details on bolted joints, supplement No. 2 contains information on working strengths of nails, spikes, drift bolts, and wood screws in West Coast Wood, and Supplement No. 3 is on strengths of Lag Screws in Douglas Fir with Tables of Safe Loads. These supplements, together with Grade-Use Guide are supplied with the Douglas Fir Use Book.

DOUGLAS FIR USE BOOK; structural data and design tables. West coast lumbermen's association. 209 p. Seattle, Wash., 1942. 99.76 W522D



## NEW BOOKS

ANIMAL ECOLOGY, by A. S. Pearse. 2nd ed. 624p.

McGraw-Hill 1939. 411P312A

The author has revised and enlarged this well-known text and has included a series of figures and photographs which add to the interest of the book. Seven new chapters have been added which include discussions of climate, evolution, chorology, succession, climaxes, rhythms, communities, competition, populations, teaching ecological problems, and economic ecology. The bibliography is extensive.

EMPLOYEE COUNSELING: A NEW VIEWPOINT IN INDUSTRIAL PSYCHOLOGY, by Nathaniel Cantor. McGraw-Hill 1945 249.3 C162

In the first section the author presents certain human problems found in industry, describes and analyzes the various approaches used in industry for dealing with them, and goes on to describe his own experiences in developing a counseling program in industry. In the second section he presents certain psychological concepts of the individual and his adjustment, and then describes the function and the techniques of the non-directive counselor. In the final section he describes the counseling organization and its relation to the balance of the company organization.

OFFICIAL REGISTER OF THE UNITED STATES 1945.

Persons occupying administrative and supervisory positions in legislative, executive, and judicial branches of the Federal Government, and in the District of Columbia government, as of May 1, 1945.

397 p. U.S. Govt. print. off., 1945. 165 C499

PLAINVILLE, USA, by James West.

Columbia Univ. Press, 1945 280.12 W523.

A sociological study of a farming community in the region, named by A. R. Mangus, the North-South Border. The exact location, all place names and personal names, even the author's, have been withheld or altered. This anonymity has made it possible for the author to frankly report on the life of an isolated farming community and its reaction to the constant stream of influences from cities and more modern farming communities.

PLANT GROWTH, by L. Edwin Yocum.

203 p. Jaques Cattell Press, 1945. 463 Y7

In the words of the author, "This book has been written in an attempt to bring together the knowledge necessary to answer (as far as possible) the many technical questions which the plant lover may ask about growing plants. It is an attempt to make clear the 'how and why' of plant growth. The principles of the laws of nature as applied to plants growing in the soil are stressed. Many of the newer theories used in plant culture are described; others, not so well established, are suggested as possible future developments."

PRACTICAL ANIMAL HUSBANDRY, by William C. Miller and E. D. S. Robertson.

535 p. Oliver and Boyd 1945. 40 M612 Ed. 4.

TURTLES OF THE UNITED STATES & CANADA, by Clifford H. Pope.  
343 p. Knopf 1946 415 P81.

"Although this is a book primarily about the habits of turtles," the author writes in his Preface. "I have included keys and diagnostic descriptions so that any chelonian of the United States can be identified at least as to the species. In contrast to the brief descriptions the life histories have been fully presented, the facts being based on all the available technical publications and many authoritative popular articles as well."

The book is illustrated with 99 photographs, and there is an extensive bibliography.

SEED TRADE BUYERS GUIDE. 242 p. 29th ed. A National seedsman publication, 1946. 225 3803 1946 4.

The 1946 edition of this handbook contains a wealth of information. A few of the subjects included are the federal and state seed laws, seed standards, lists of seed dealers, lawn seed mixtures, grass seed information, insecticides, seed analysis, noxious weeds and spraying.

TEXTBOOK OF BACTERIOLOGY, by E. O. Jordan and William Burrows.  
14th ed. rev. 909 p. Saunders, 1945. 148.2 J76.

USDA, MANAGER OF AMERICAN AGRICULTURE, by Ferdie Deering  
213 p. Univ. of Oklahoma press, 1945. 281.12 D36.

An objective appraisal of the Department of Agriculture by the editor of The Farmer-Stockman. The author presents the riddle and the faults of its organization and administration and reveals the value of many of its basic policies - crop control, soil conservation, parity payments, rural resettlement.

Here is an opportunity to see ourselves as others see us, and the book should be a must on the reading list of every USDA employee.

#### NOTE

The HEARINGS on the AGRICULTURE DEPARTMENT APPROPRIATION BILL FOR 1947 have been received. This publication contains a wealth of information on the programs and activities of all of the agencies of the Department as well as factual information on American agriculture, as presented by Secretary Anderson.

The library has also received copies of the APPROPRIATION BILL and the HOUSE REPORT on the bill.

#### SELECTED PAMPHLETS

##### AGRICULTURAL ECONOMICS

AIR TRANSPORT OF AGRICULTURAL PERISHABLES. USDA Miscel. Pub. No. 585.  
January 1946. 1 Ag84M

THE FARM REAL ESTATE SITUATION, 1944-45. USDA Circular no. 743. Oct.  
1945 1 Ag84C.

INHERITANCE OF FARM REAL ESTATE, 1920-1945. Library list no. 22 January  
1946. 1.916 L612

LAND TRANSFER AND TITLES, 1920-1945 A list of references. Library list  
no. 21. December 1945. 1.916 L612

OKLAHOMA FARM REAL ESTATE ACTIVITY. Okla Exp. Sta. Bul. B-291. Feb. 1946. 4  
100 Ok4b.



SELECTION ARIZONA SETTLERS. Ariz. Exp. Sta. Bul. 196. Feb. 1945 100  
Ar4B.

SOCIAL SECURITY FOR FARM PEOPLE. Questions and answers. Prepared in cooperation with the Social Security Board. USDA AIS-45. June 1946. 1Ag84.

#### AGRICULTURAL ENGINEERING

DITCHING WITH DYNAMITE. E. I. Du Pont de Nemours & Co. 33p. 2nd ed. 1945. UB Eng.

Describes two methods of blasting ditches, the propagation and the electric. The propagation method can be used only in wet soils, while the electric method can be used in either wet or dry soils.

EARTH BRICK CONSTRUCTION, 110p. Home improvement pamphlets no. 1 U. S. Office of Indian Affairs. 1943. U.B. Farm Buildings.

This well illustrated pamphlet contains information on method of selecting soils for adobe brick, the manufacture of adobe bricks, laying the bricks, and construction details.

IRRIGATION IN THE DEMING AREA, LUNA COUNTY, NEW MEXICO. 49 p. U. S. Soil Conservation service region 6. June 1945. UB Irrig.

#### CROPS - SEED - WEEDS

CHEMICALS TO KILL WEEDS AND DISEASES IN TOBACCO BEDS. Folder USDA AIS-31 July 1945 1 Ag84Ai.

CONTROLLING BROAD-LEAVE ANNUAL AND BIENNIAL WEEDS WITH SINOX. 17p. Montana Agr. Exp. Sta. Bul 430 May 1945. 100 M76b.

CORN SEED TREATMENT IN OKLAHOMA. Okla. Agr. Exp. Sta. Bul. B-294. March 1946. 100 Ok4b.

HANDLING AND SHIPPING EARLY POTATOES. USDA Circular no. 744. Jan. 1946

HERBICIDAL USE OF CARBON DISULFIDE. 57 p. Calif. Agr. Exp. Sta. Bul. 693. October 1945.

LESPEDeza CULTURE AND UTILIZATION. USDA Farmers' Bul. no. 1852. 1 Ag84F.

SIZE OF WHOLE AND CUT SEED AND SPACING IN RELATION TO POTATO YIELDS. Maine Agr. Exp. Sta. Bul. no. 439. Dec. 1945. 100 M28Sb.

VEGETABLE SEED TREATMENT FOR OKLAHOMA. Okla. Exp. Sta. Bul. no. B-293. March 1946. 100 Ok4b.

#### ENTOMOLOGY

BEEKEEPING FOR BEGINNERS. Ariz. Agr. Ext. Serv. Circ. 126. 275.29 Ar47C.

BIOLOGY AND CONTROL OF THE AMERICAN DOG TICK. USDA Tech. Bul. no 905. Jan. 1946. 1 Ag84Te.

COMBATING THE AMERICAN DOG TICK CARRIER OF ROCKY MOUNTAIN SPOTTED FEVER IN THE CENTRAL AND EASTERN STATES. U.S. Bur. of Ent. and Plant Quar. E-454. Rev. Feb. 1946. 1.9 En83.

INSECTICIDAL TESTS OF SOME MATERIALS ON THE MEXICAN BEAN BEETLE. U.S. Bur. of Ent. and Plant Quar. E-682. February 1946. 1.9 En83.

NATURAL REPLACEMENT OF WOOD HOSTS OF THE BEET LEAFHOPPER AS AFFECTED BY RODENTS. USDA Circular no. 739. December 1945. 1 Ag84C.

PEA DISEASES AND THEIR CONTROL. USDA Farmers' Bul. no. 1735. Rev. Oct. 1945 1 Ag84F.

THE PEA BEVIL AND METHODS FOR ITS CONTROL. USDA Farmers' Bul. no. 1971 Jan. 1946. 1 Ag84F.

SUMMARY OF 1945 DDT INVESTIGATIONS FOR CONTROL OF FOREST INSECTS WITH SPECIAL REFERENCE TO AERIAL APPLICATION. U.S. Bur. of Ent. & Plant Quar. E-684. 1.9. En83.

THE USE OF DDT FOR BEDBUG CONTROL. U.S. Bur. of Ent. and Plant Quar. E-681.  
February 1946. 1.9 En83.

THE USE OF DDT IN CONTROLLING FLEAS. U.S. Bur. of Ent. and Plant Quar. E-680.  
Jan. 1946. 1.9 En83

## FORESTRY

CAREERS IN FORESTRY. USDA Miscel. Pub. no. 249. Rev. Aug. 1945. 1 Ag84M.  
NATIONAL FOREST FACTS SOUTHWESTERN REGION - ARIZONA AND NEW MEXICO 1946.

1 Ag84 Reg 41 29.

Statistical information on the thirteen national forests in the two states.

TREES, SHRUBS AND VINES SUITABLE FOR USE IN REGION 6. Soil Conservation Service. Southwest region. October 6, 1944.

## HOME ECONOMICS

CAKES AND COOKIES RECIPES FOR DIFFERENT ALTITUDES. Colo. Ext. Serv. Bul. 367-A January 1946. 275.29 C71B.

COOKING OVER THE CAMP-FIRE. U.S. Forest Service. July 1945 1.962 A2C77.

HOW TO TAILOR A WOMAN'S SUIT. USDA Miscel. Pub. no. 591. March 1946. 1 Ag84M.

INSTRUCTIONS ON PROCESSING FOR COMMUNITY FROZEN-FOOD LOCKER PLANTS. USDA Miscel. Pub. no. 588 March 1946. 1 Ag84M.

PRESERVATION OF FOODS ON THE FARM BY FREEZING. Purdue Agr. Exp. Sta. Bul. 507. Sept. 1945. 100 In2Pb.

## LIVESTOCK AND POULTRY

DO YOU DRESS CHICKENS? HERE'S HOW! Ohio Agr. Ext. Serv. Bul 263. Aug. 1945. 275.29 Ok32. Each step is clearly illustrated.

FEEDING HORSES. USDA Farmers' Bul. no. 1030. Rev. Sept. 1945. 1 Ag84E.

PLANNING A YEAR-ROUND POULTRY GREEN FEED PROGRAM FOR OKLAHOMA. Okla. Agr. Exp. Sta. Circ. C-120. Jan. 1946. 100 Ok4c.

SHEEP RANCHING IN SOUTHEASTERN NEW MEXICO. N. M. Agr. Exp. Sta. Bul. 325. Dec. 1945.

## RANGE AND PASTURES

SAGEBRUSH TO GRASS. Rebuilding western range lands by eliminating sagebrush and planting grass. USDA AIS-27 August 1945 1 Ag84Ais.

YOUR KEY TO GOOD PASTURES. Purdue Agr. Ext. leaflet no. 244. 1945 275.29 In2L

## SOIL AND SOIL CONSERVATION

CONSERVATION AND LAND USE INVESTIGATIONS at the RED PLAINS CONSERVATION EXPERIMENT STATION and the WHEATLAND CONSERVATION EXPERIMENT STATION.

Okla. Exp. Sta. Memo. Circ. M-139. May 1945. 100 Ok4M.

RELATION OF THE PHYSICAL PROPERTIES OF DIFFERENT SOIL TYPES TO ERODIBILITY. S. C. Exp. Sta. Bul. 357. May 1945. 100 So8.

RELATIVE INFILTRATION AND RELATED PHYSICAL CHARACTERISTICS OF CERTAIN SOILS. USDA Tech. Bulletin 729. July 1940. 1 Ag84Te.

SOME SOIL PROPERTIES RELATED TO THE SODIUM SALT PROBLEM IN IRRIGATED SOILS. USDA Tech. Bulletin 902. Sept. 1945. 1 Ag84Te.



## WILDLIFE

- DEER MANAGEMENT AND RANGE LIVESTOCK PRODUCTION. Utah Agr. Exp. Sta. Circ. 121. June 1945.  
INCREASING VALLEY QUAIL IN CALIFORNIA. Calif. Agr. Exp. Sta. bul 695. Nov. 1945. 100 Cl2Sb.

## MISCELLANEOUS

ADMINISTRATION AND USE OF PUBLIC LANDS... Some public land withdrawals in Utah - their relation to oil, potash, and magnesium resources, and to executive authority to make withdrawals. 70 p. U.S. Congress. Senate Report No. 808, 79th Congress.

This is the third partial report on the administration and use of public lands.

BRUCELLOSIS (Undulant Fever) by Alice C. Evans. 3p. U.S. Public health service Miscel. Pub. no. 34.

COLD STORAGE FOR APPLES AND PEARS. USDA Circ. 740. Feb. 1946. 1 Ag84C.

COLUMBIA BASIN JOINT INVESTIGATIONS. U.S. Bur. of Reclamation. 3 vols. U. S. Govt. print. off., 1945. 156.85 T98.

A part of a series reporting the results of studies made to facilitate the development of more than 1,000,000 acres of potentially irrigable lands in the Columbia Basin. These three reports are entitled IRRIGATION WATER REQUIREMENTS, DEVELOPMENT RATE OF PROJECT LANDS and FARM IMPROVEMENT.

CONTROL MANUAL. Headquarters, Army service forces. 7vols. Army service forces manual M703-1 - M703-7 1943-1944. Contents. - Fundamentals of control. - Basic principles of organization. - Work simplification. - (materials handling) Work measurement. - Standardization of forms. - simplification and standardization of procedures.

THE FOLK FESTIVAL HANDBOOK. A practical guide for local communities. 64 p. Phil., The Evening Bulletin Folk Festival Assn., c1944. U. B. Recr.

The material in this handbook was prepared in cooperation with the National Folk Festival Association in the interest of preserving our native folk songs and music.

HEALTH SERVICE AREAS. Requirements for general hospitals and health centers. by Joseph W. Mountin and others. 68 p. Public health bulletin no. 292. U.S. Public health service. 1945.

The authors have attempted to project a plan for an integrated scheme of hospitals and related facilities to cover every section of the nation.

Figure 9 on page 21 is a map showing present and potential health facilities in the Mountain States.

LONGER LIFE FOR POLES AND POSTS. USDA AIS-36 1946. 1 Ag84Ai.

METHOD OF ANALYSIS USED IN THE RUBIDOUX LABORATORY, RIVERSIDE, CALIFORNIA.

U.S. Bur. of Plant Industry. July 1942. U.B. Water. Includes information on analysis of WATER, SOILS and PLANTS.

RADIO HANDBOOK FOR EXTENSION WORKERS. USDA Miscel. Pub. no 592. 1 Ag84M.

SAFETY GUIDE FOR THE FARM AND HOME FRONT. General Mills, Inc. 23 p. U.B. Safety.

## REPORTS

The library has received the 1945 reports of most of the Department's bureaus and agencies. Among these are the reports of the SECRETARY OF AGRICULTURE, the Chief of the FOREST SERVICE Forests and Employment together with a statistical supplement, and of the Chief of the SOIL CONSERVATION SERVICE.





